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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/748,634	12/30/2003	Ananda Chinnaiah Sankaran	016295.1512	6894

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EXAMINER
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CHU, GABRIEL L

ART UNIT	PAPER NUMBER
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2114

DATE MAILED: 09/20/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/748,634

Applicant(s)

SANKARAN ET AL.

Examiner

Gabriel L. Chu

Art Unit

2114

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 30 December 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 2-26 is/are allowed.
- 6) ☒ Claim(s) 1 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 December 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date <u>20031230</u> . | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Claim Objections***

1. Claims objected to because of the following informalities:

Referring to claim 1, "communication" is understood to refer to "communicating".

Referring to claim 1, the "and" is understood to go between the second and third limitations, rather than the first and second limitations.

Referring to claim 12, "communiating" is understood to refer to "communicating".

Referring to claim 15, "the a client" is understood to refer to "a client".

Referring to claim 14, "...claim14, wherein the system in constructed... nodes perform..." is understood to refer to "claim 14, wherein the system is constructed... nodes to perform..."

Appropriate correction is required.

### ***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. **Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by US 6360331 to Vert et al.** Referring to claim 1, Vert discloses a method for backing up a cluster having one or more nodes, comprising:

providing a primary coordinator operative with the cluster (Figure 2, 57.);

providing a backup service for each of said nodes, the backup service further operative with said primary coordinator (From line 63 of column 4, "To create a new cluster, a system administrator runs a cluster installation utility on a system that then becomes a first member of the cluster 58. For a new cluster 58, a database is created and the initial cluster member information is added thereto. The administrator then configures any devices that are to be managed by the cluster software. At this time, a cluster exists having a single member, after which the installation procedure is run on each of the other members of the cluster. For each added member, the name of the existing cluster is entered and the new system receives a copy of the existing cluster database." From line 41 of column 5, "Systems (e.g., 60.sub.1 -60.sub.j of FIG. 2) in the cluster 58 have the same view of cluster membership, and in the event that one system detects a communication failure with another system, the detecting system broadcasts a message to the cluster 58 causing other members to verify their view of the current cluster membership. This is known as a regroup event, during which writes to potentially shared devices are disabled until the membership has stabilized. If a system does not respond, it is removed from the cluster 58 and its active groups are failed over ("pulled") to one or more active systems. Note that the failure of a cluster service 70 also causes its locally managed resources to fail.");

and communicating backup information by the primary coordinator to the backup service of a first node after an application has been moved to the first node from a second node (From the abstract, "When the application is failed over to a second

system, the snapshot for that application is retrieved from the quorum disk and written to the registry of the second system in a corresponding subtree.”).

***Allowable Subject Matter***

4. Claims 2-26 allowed provided correction of above indicated informalities.
5. The following is an examiner’s statement of reasons for allowance: Referring to claims 2-11, the prior art does not teach or fairly suggest providing a primary coordinator executing on a first node of the cluster; providing a backup service for each of the nodes, each backup service operative with the primary coordinator; obtaining failover information by the primary coordinator from a cluster service of the second node, in the scope and context of claim 2.
6. Referring to claims 12-25, the prior art does not teach or fairly suggest each of said nodes further executing a backup service; a primary coordinator executing on one of the two or more nodes, the primary coordinator constructed and arranged to coordinate the backup of data on the nodes by communicating backup information to the backup services, in the scope and context of claim 12.
7. Referring to claim 26, the prior art does not teach or fairly suggest a backup service on each of the nodes; and a primary coordinator executing on one of the nodes, the primary coordinator constructed and arranged to direct the backup service on each of said nodes to backup data on the node through the SAN, in the scope and context of claim 26.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

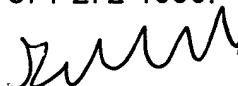
***Conclusion***

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See notice of references cited.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gabriel L. Chu whose telephone number is (571) 272-3656. The examiner can normally be reached on weekdays between 8:30 AM and 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Scott Baderman can be reached on (571) 272-3644. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Gabriel L. Chu  
Examiner  
Art Unit 2114

gc